

ABSTRACT OF THE DISCLOSURE

The present invention provides a drum type refining or washing apparatus in which the refining or washing efficiency of a pulp suspension or a food suspension is remarkably enhanced by the filtration function of a rotary drum and by the filtrate sucking force of a filtrate receptive cell.

A drum type refining or washing apparatus in which a filtrate receptive chamber 34 facing the outer peripheral surface of a rotary drum 1 which is laterally installed, is defined by a plurality of filtrate receptive cells 31 arranged in the peripheral direction of the rotary drum 1, each filtrate receptive cell 31 being provided at one end thereof on the side opposite to the rotating direction of the rotary drum 1 with a discharge port 32 for discharging the filtrate received in the filtrate receptive chamber 34 of the filtrate receptive cell 31 through the rotary drum forming wall into the liquid vessel 11, the filtrate in the filtrate receptive chamber 34 of the filtrate receptive cell 31 being discharged in the liquid vessel 11 through the discharge port 32 during an escaping process of the filtrate receptive cell 31 onto the liquid surface 17 of the liquid vessel 11 in accordance with rotation of the rotary drum 1, discharge of the filtrate causing generation of a filtrate sucking force directing toward the inside of the filtrate receptive chamber 34 at the rotary drum forming wall which the filtrate receptive chamber 34 of the filtrate receptive cell 31 faces.